



Certificate no.:
TAA00003VY

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Programmable Controller**

with type designation(s)
XF3xx-Y series

issued to

ALTUS SISTEMAS DE AUTOMACAO S.A.
Sao Leopoldo, RS, Brazil

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location Classes

Temperature	B
Humidity	B
Vibration	A
EMC	B
Enclosure	A

Issued at **Hamburg** on **2026-05-26**

This Certificate is valid until **2031-05-25**.

for **DNV**

DNV local unit: **Station Rio de Janeiro, NB/CMC/Approval**

Approval Engineer: **Ramy Abdelal**

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Nexto Series Programmable Logic Controller (PLC) including:

Code	Description	Main Modules/Software
XF300	High-speed compact PLC with 16 digital inputs, 16 transistor digital outputs, 2 Ethernet ports, 1 RS-485 port, 1 CAN port, USB Host, and microSD card.	CPU/Product Revision: AA Software Version: 1.14.70.0
XF315	High-speed compact PLC with 16 digital inputs, 16 transistor digital outputs, 6 current analog inputs, 4 voltage analog inputs, 2 Ethernet ports, 1 RS-485 port, 1 CAN port, USB Host, and microSD card.	CPU/Product Revision: AA Software Version: 1.14.70.0
XF325	High-speed compact PLC with 16 digital inputs, 16 transistor digital outputs, 6 current analog inputs, 4 voltage analog inputs, 2 analog outputs (V/I), 2 Ethernet ports, 1 RS-485 port, 1 CAN port, USB Host, and microSD card.	CPU/Product Revision: AA Software Version: 1.14.70.0
XF325-W	High-speed compact PLC with 16 digital inputs, 16 transistor digital outputs, 6 current analog inputs, 4 voltage analog inputs, 2 analog outputs (V/I), 2 Ethernet ports, 1 RS-485 port, 1 CAN port, USB Host, microSD card and user web page support.	CPU/Product Revision: AA Software Version: 1.14.70.0
XF300-B	High-speed compact PLC with 16 digital inputs, 16 transistor digital outputs, 2 Ethernet ports, 1 RS-485 port, 1 CAN port, USB Host, and microSD card. Support for basic protocols only.	CPU/Product Revision: AA Software Version: 1.14.70.0

- Power supply: 24V DC (min. 19.2 DC / max. 30V DC)
- Mounting: DIN rail mount

Application/Limitation

XF3xx-Y covers devices within the Nexto XF series where “xx” defines the hardware version (00, 15, 25), and “Y” is limited to software/firmware variants only, with no hardware modifications.

User Manual Nexto XF MU218600 Rev. A, Chapter 3 (Installation) to be observed.

Installation in a separate metallic cabinet.

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Product certificate

If specified in the Rules, ref. Pt.4 Ch.9 Sec.1, the control and monitoring system in which the above listed hardware is used shall be delivered with a product certificate. For each such delivery the certification test is to be performed at the manufacturer of the application system before the system is shipped to the yard. The test shall be done according to an approved test program. After the certification the clause for application software control will be put into force.

Clause for application software control

All changes in software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to DNV for evaluation and approval. Major changes in the software are to be approved before being installed in the computer.

Type Approval documentation

Tests carried out

-Applicable tests according to class guideline DNV-CG-0339, August 2021

Marking of product

The products to be marked with:

- Model name
- Manufacturer name
- Serial number
- Supply voltage.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

Manufactured by

Altus Sistemas de Automação S.A.
Av. Theodomiro Porto da Fonseca, 3101, Bairro Cristo Rei lote 1
São Leopoldo Rio Grade do Sul
Brazil

END OF CERTIFICATE